



Coursera - Create your first Amazon Aurora Database in AWS

Generated on December 14, 2023

Summary

Notes

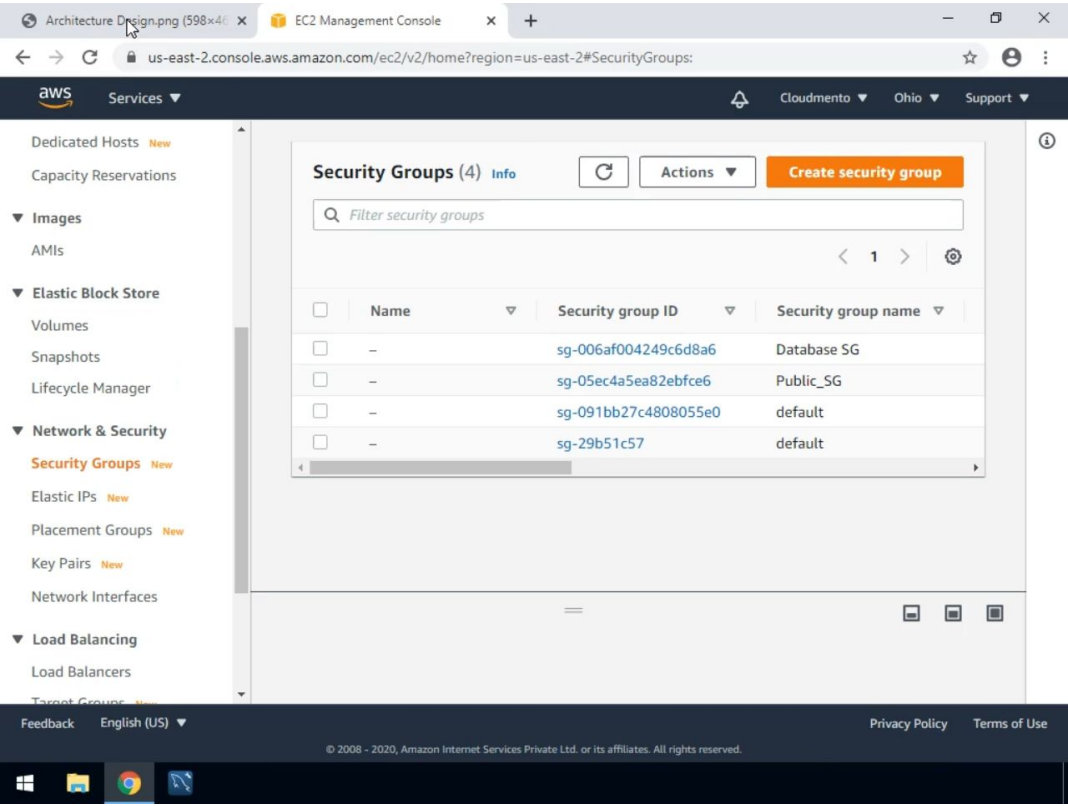
Screenshots


Bookmarks

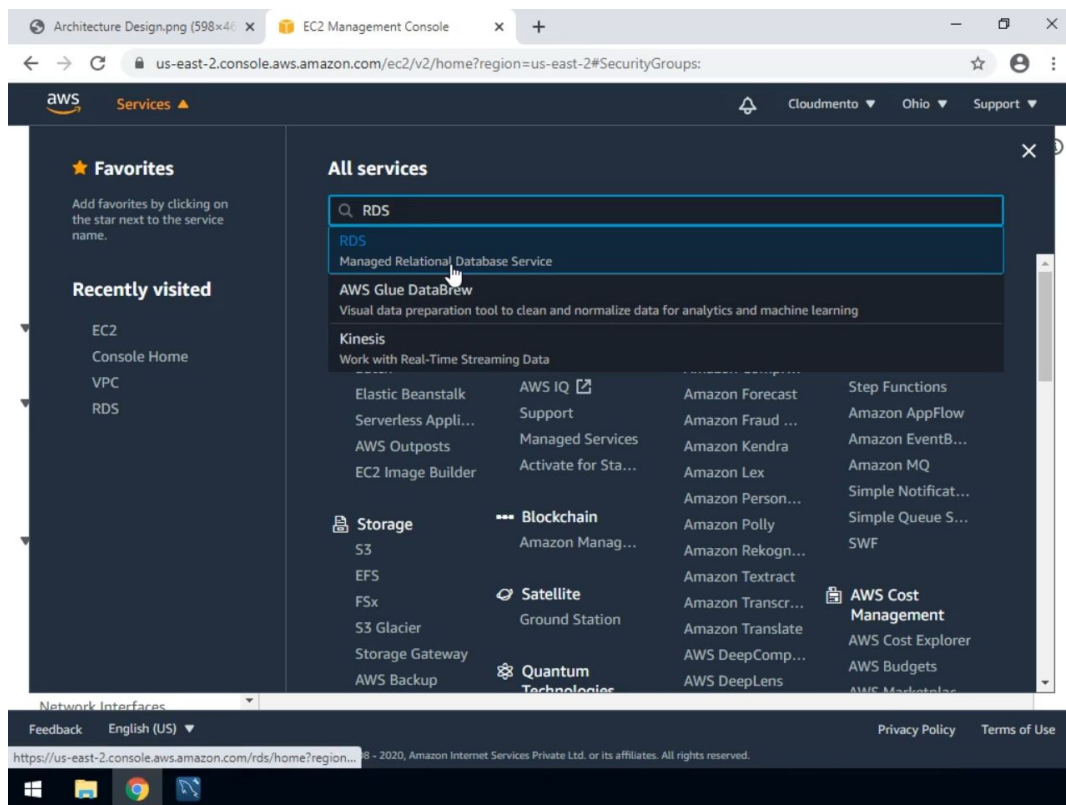
 3

 27

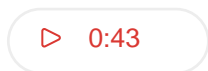
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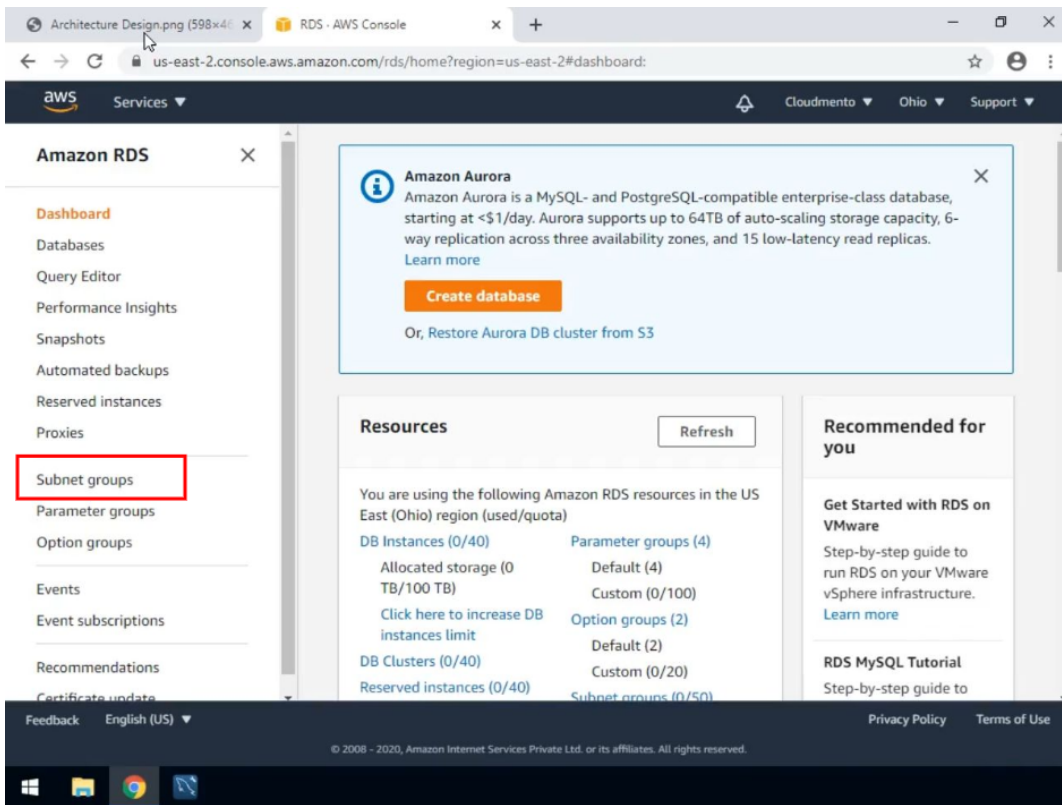


 0:07

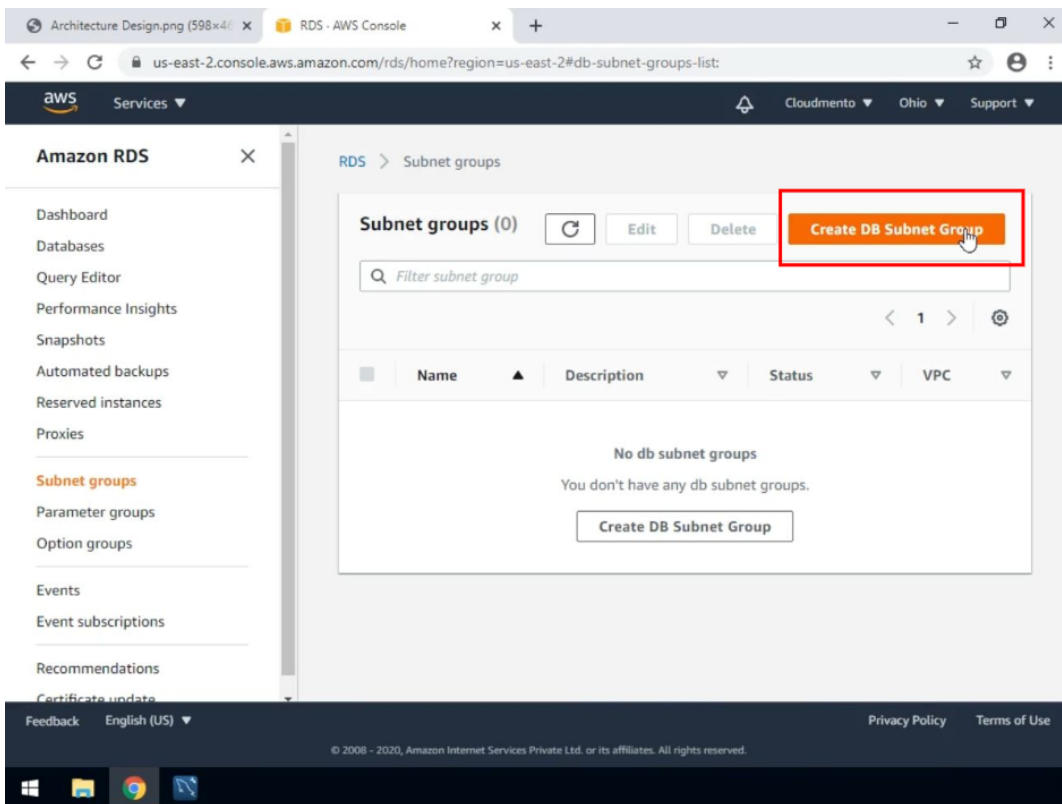


before creating the database first we will
create “Subnet Group”

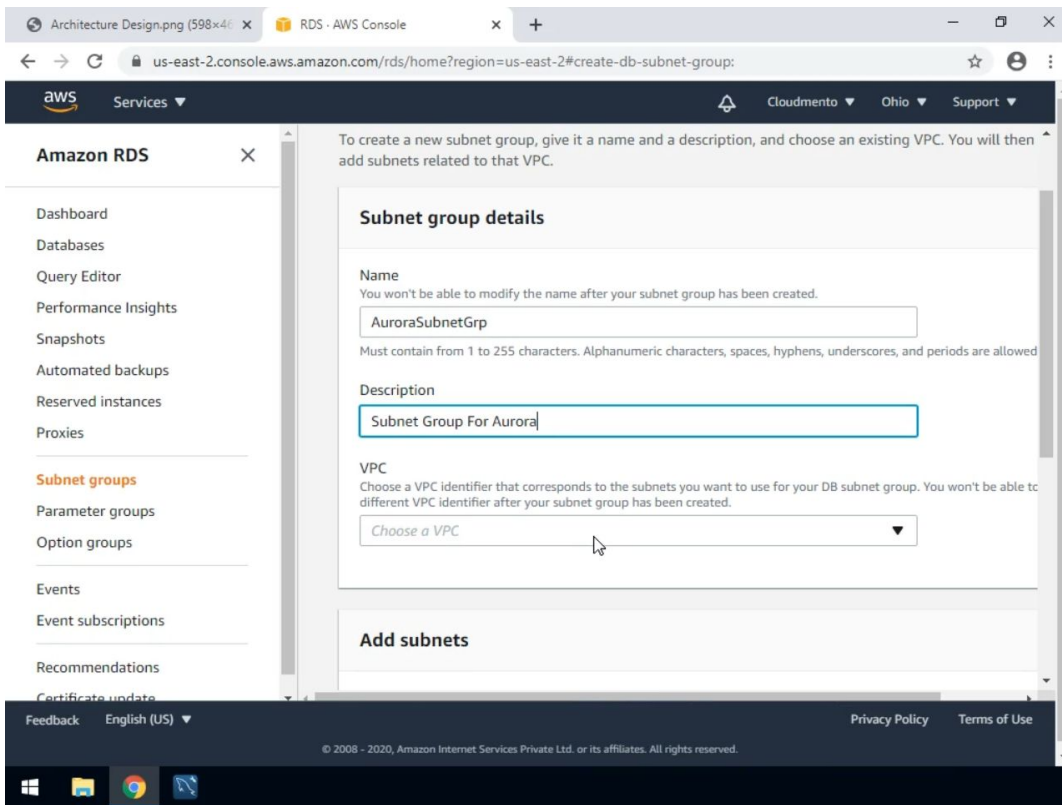




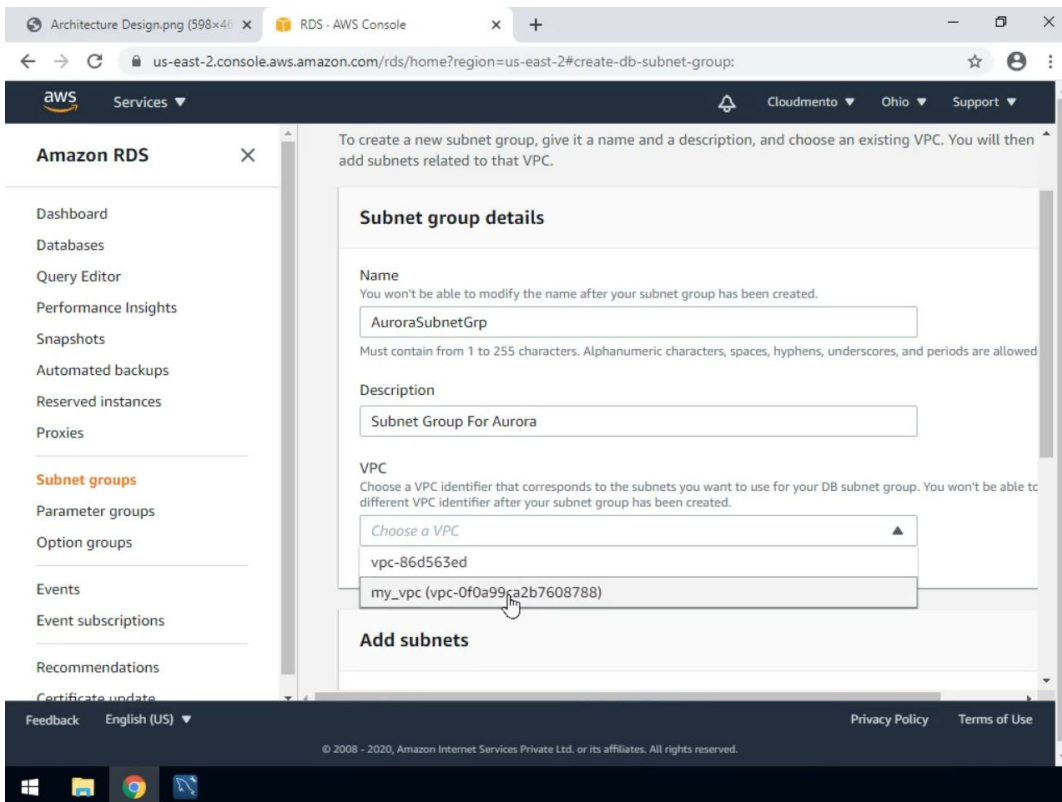
0:43



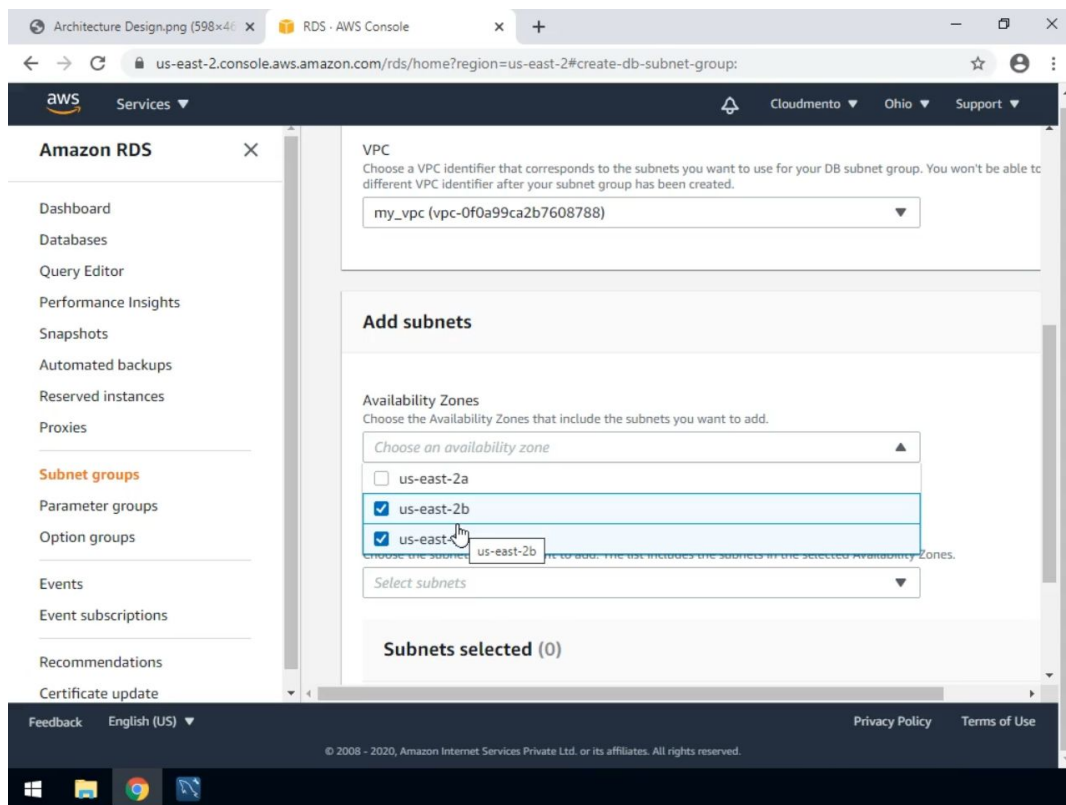
0:57



1:26



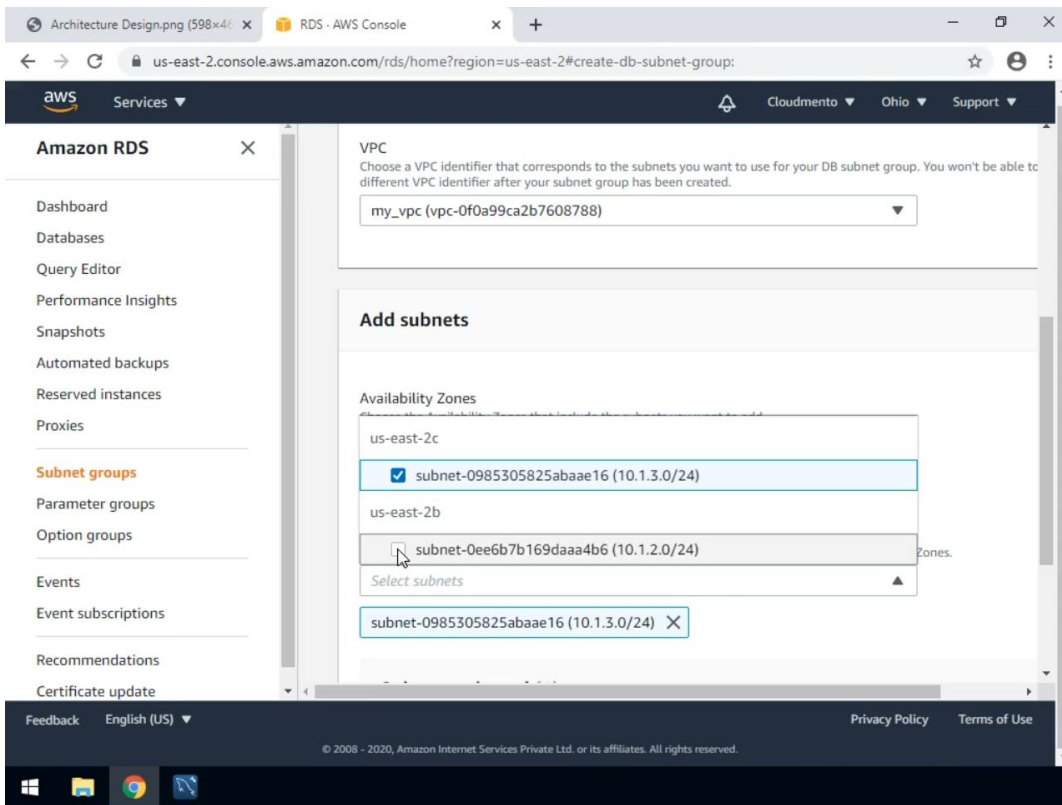
1:28



▶ 1:48

as we know our aurora database cluster will span at private
subnet only so we will select availability zones as us-east-2b
& us-east-2c(private)

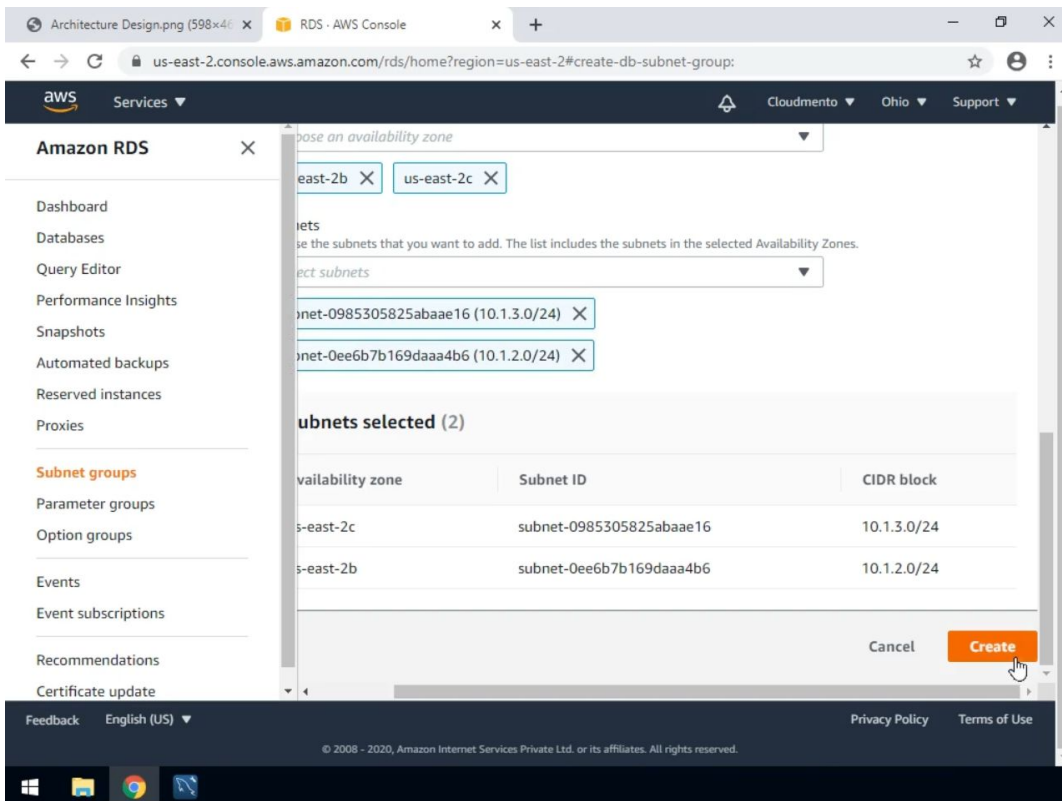
▶ 1:51



▶ 1:52

and we will select both the private subnets here

▶ 1:54



▶ 2:11

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#db-subnet-groups-list:

aws Services Cloudminto Ohio Support

Amazon RDS

Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Events
Event subscriptions
Recommendations
Certificate update

Successfully created AuroraSubnetGrp. View subnet group

RDS > Subnet groups

Subnet groups (1)

Refresh Edit Delete Create DB Subnet Group

Filter subnet group

< 1 > ⚙

| <input type="checkbox"/> | Name | Description | Status | VPC |
|--------------------------|-----------------|-------------------------|----------|-----------------------|
| <input type="checkbox"/> | aurorasubnetgrp | Subnet Group For Aurora | Complete | vpc-0f0a99ca2b7608788 |

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▶ 2:16

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#databases:

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Amazon RDS

Dashboard
Databases
Query Editor
Performance Insights
Snapshots
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Events
Event subscriptions
Recommendations
Certificate update

RDS > Databases

Databases

Group resources Refresh Modify Actions Restore from S3

Create database

Filter databases

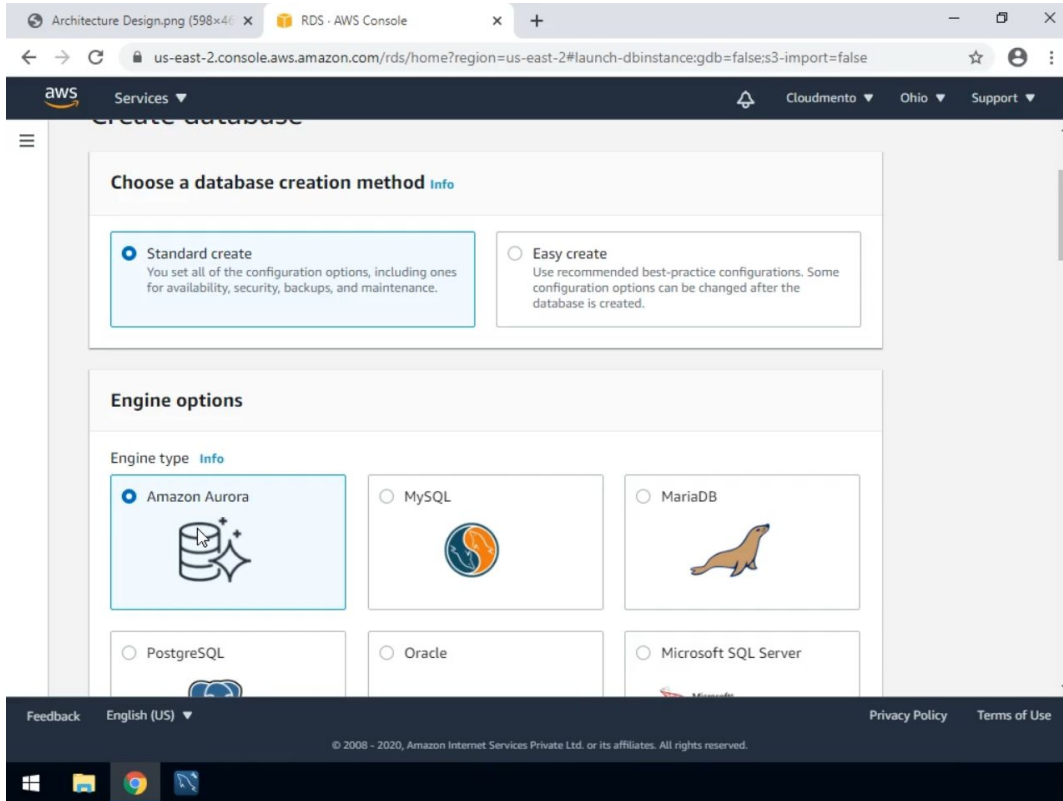
< 1 > ⚙

| <input type="checkbox"/> | DB identifier | Role | Engine | Re |
|--------------------------|---------------|------|--------|----|
|--------------------------|---------------|------|--------|----|

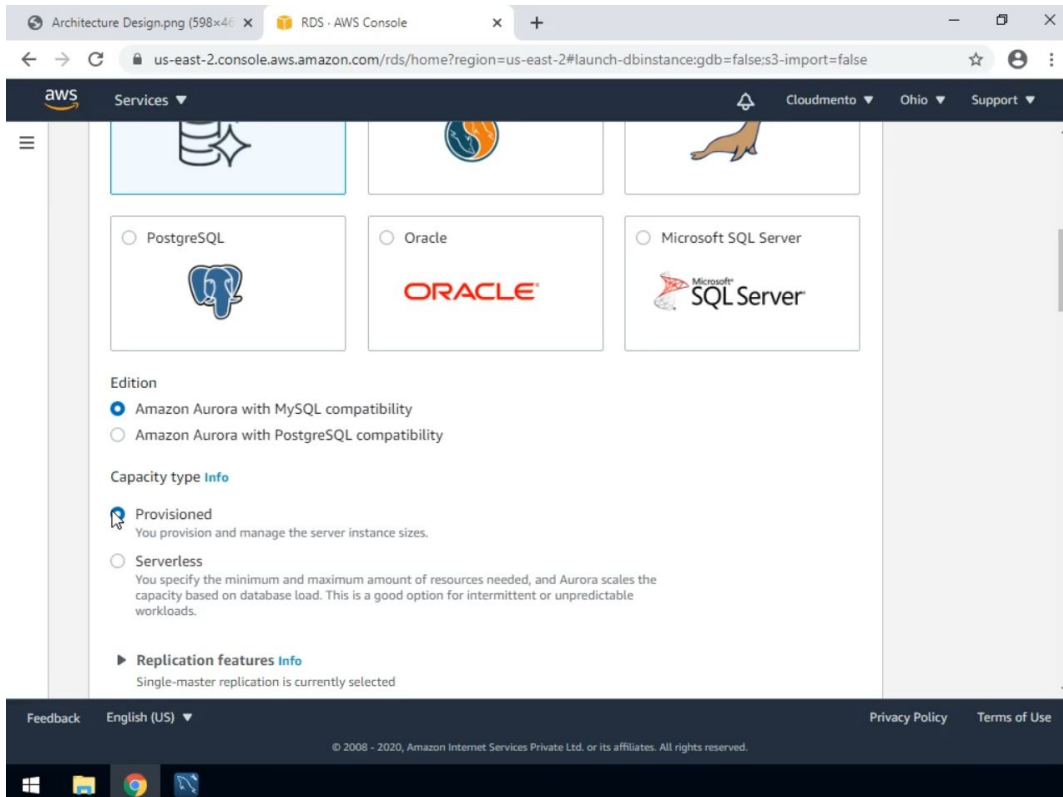
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▶ 2:31



▶ 2:40



▶ 3:05

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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Amazon Aurora with PostgreSQL compatibility

Capacity type [Info](#)

- Aurora (MySQL)-5.6.10a
- Aurora (MySQL 5.6) 1.17.9
- Aurora (MySQL 5.6) 1.19.0
- Aurora (MySQL 5.6) 1.19.1
- Aurora (MySQL 5.6) 1.19.2
- Aurora (MySQL 5.6) 1.19.5
- Aurora (MySQL 5.6) 1.19.6
- Aurora (MySQL 5.6) 1.20.0
- Aurora (MySQL 5.6) 1.20.1
- Aurora (MySQL 5.6) 1.21.0
- Aurora (MySQL 5.6) 1.22.0
- Aurora (MySQL 5.6) 1.22.1
- Aurora (MySQL 5.7) 2.07.2

To see more versions, modify the capacity types. [Info](#)

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

Templates

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▶ 3:19

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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Replication features [Info](#)

Single-master replication is currently selected

Engine version [Info](#)

View the engine versions that support the following database features.

☐ Show versions that support the global database feature

☐ Show versions that support the parallel query feature

Version

Aurora (MySQL)-5.6.10a

To see more versions, modify the capacity types. [Info](#)

Templates

Choose a sample template to meet your use case.

☐ Production

Use defaults for high availability and fast, consistent performance.

☒ Dev/Test

This instance is intended for development of a production environment.

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

Settings

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▶ 3:26

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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Settings

DB cluster identifier [Info](#)
Type a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the Region.

AuroraCluster

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 63 characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ **Credentials Settings**

Master username [Info](#)
Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter

☐ **Auto generate a password**
Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote), @ (at sign).

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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▶ 3:47

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

aws Services Cloudmemento Ohio Support

(at sign).

Confirm password [Info](#)

DB instance size

DB instance class [Info](#)
Choose a DB instance class that meets your processing power and memory requirements. The DB instance class is limited to those supported by the engine you selected above.

☐ Memory Optimized classes (includes r and x classes)

☒ **Burstable classes (includes t classes)**

db.t3.small
2 vCPUs 2 GiB RAM EBS: 2085 Mbps

☐ Include previous generation classes

Availability & durability

Multi-AZ deployment [Info](#)

☐ Create an Aurora Replica or Reader node in a different AZ (recommended for

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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▶ 4:22

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

aws Services Cloudmemento Ohio Support

(at sign).

Confirm password Info

DB instance size

DB instance class Info

Choose a DB instance class that meets your processing power and memory requirements. The DB instance class of limited to those supported by the engine you selected above.

☐ Memory Optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t2.small
1 vCPUs 2 GiB RAM Not EBS Optimized

☒ Include previous generation classes

Availability & durability

Multi-AZ deployment Info

☒ Create an Aurora Replica or Reader node in a different AZ (recommended for

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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▶ 4:47

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

aws Services Cloudmemento Ohio Support

DB instance size

DB instance class Info

Choose a DB instance class that meets your processing power and memory requirements. The DB instance class of limited to those supported by the engine you selected above.

☐ Memory Optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t2.small
1 vCPUs 2 GiB RAM Not EBS Optimized

☒ Include previous generation classes

Availability & durability

Multi-AZ deployment Info

☒ Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)
Creates an Aurora Replica for fast failover and high availability.

☐ Don't create an Aurora Replica

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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if one availability zone failed, aurora replica will manage the server and help in scalability (prevent data loss)

▶ 5:18

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

aws Services Cloudmemento Ohio Support

Multi-AZ deployment [Info](#)

- ☒ Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)
Creates an Aurora Replica for fast failover and high availability.
- ☐ Don't create an Aurora Replica

Connectivity

Virtual private cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB cluster.

my_vpc (vpc-0f0a99ca2b7608788)

Only VPCs with a corresponding DB subnet group are listed.

[i](#) After a database is created, you can't change the VPC selection.

► Additional connectivity configuration

► Additional configuration

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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▶ 5:28

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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► Additional connectivity configuration

Subnet group [Info](#)

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

aurorasubnetgrp

Public access [Info](#)

- ☐ Yes
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups to specify which EC2 instances and devices inside the VPC can connect to the database.
- ☒ No
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to the database.

VPC security group

Choose one or more RDS security groups to allow access to your database. Ensure that the security group rules allow all traffic from EC2 instances and devices outside your VPC. (Security groups are required for publicly accessible data.)

☒ Choose existing
Choose existing VPC security groups

☐ Create new
Create new VPC security group

Existing VPC security groups

Choose VPC security groups

default x

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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▶ 5:40

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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☐ Yes
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups to specify which EC2 instances and devices inside the VPC can connect to the database.

☒ No
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to the database.

VPC security group

Database SG

Public_SG

default

Choose VPC security groups

Database SG X

Database port [Info](#)
TCP/IP port that the database will use for application connections.

3306

► Additional configuration
Database options, encryption enabled, failover, backup enabled, backtrack disabled, Enhanced Monitoring enabled

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▶ 5:56

Architecture Design.png (598x46) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

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▼ Additional configuration
Database options, encryption enabled, failover, backup enabled, backtrack disabled, Enhanced Monitoring enabled, maintenance, CloudWatch Logs, delete protection disabled

Database options

Initial database name [Info](#)
TestDB
If you do not specify a database name, Amazon RDS does not create a database.

DB cluster parameter group [Info](#)
default:aurora5.6

DB parameter group [Info](#)
default:aurora5.6

Option group [Info](#)
default:aurora-5-6

Failover priority
No preference

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master
5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

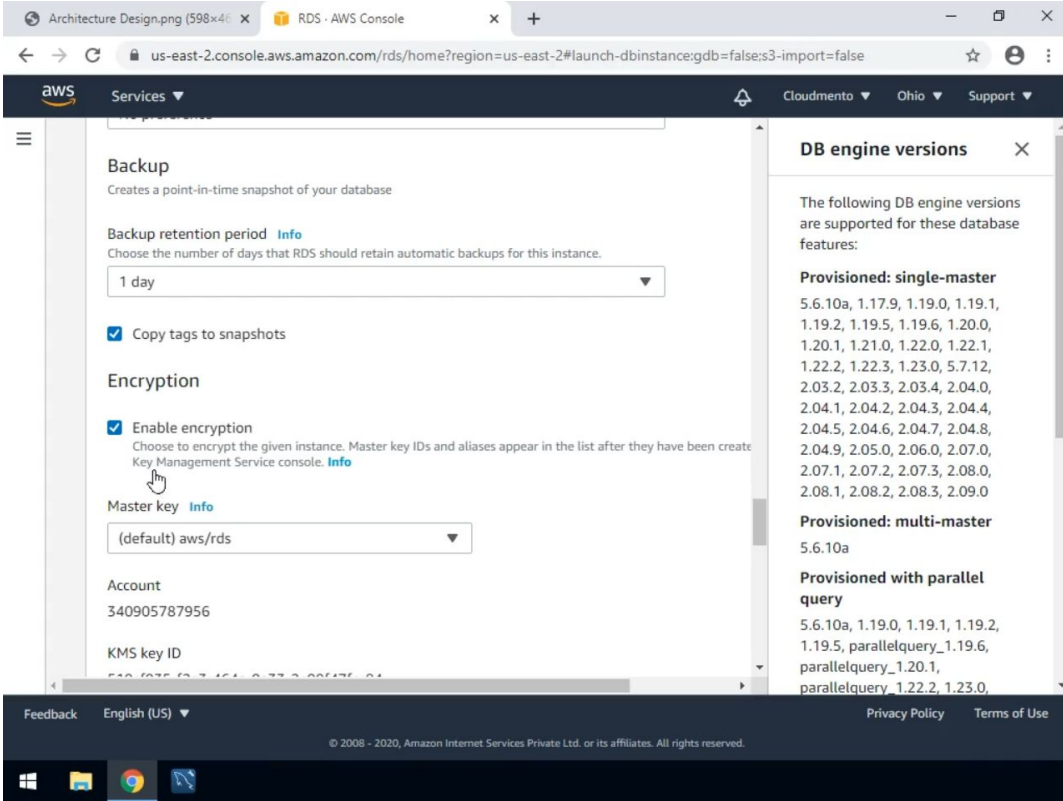
Provisioned: multi-master
5.6.10a

Provisioned with parallel query
5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

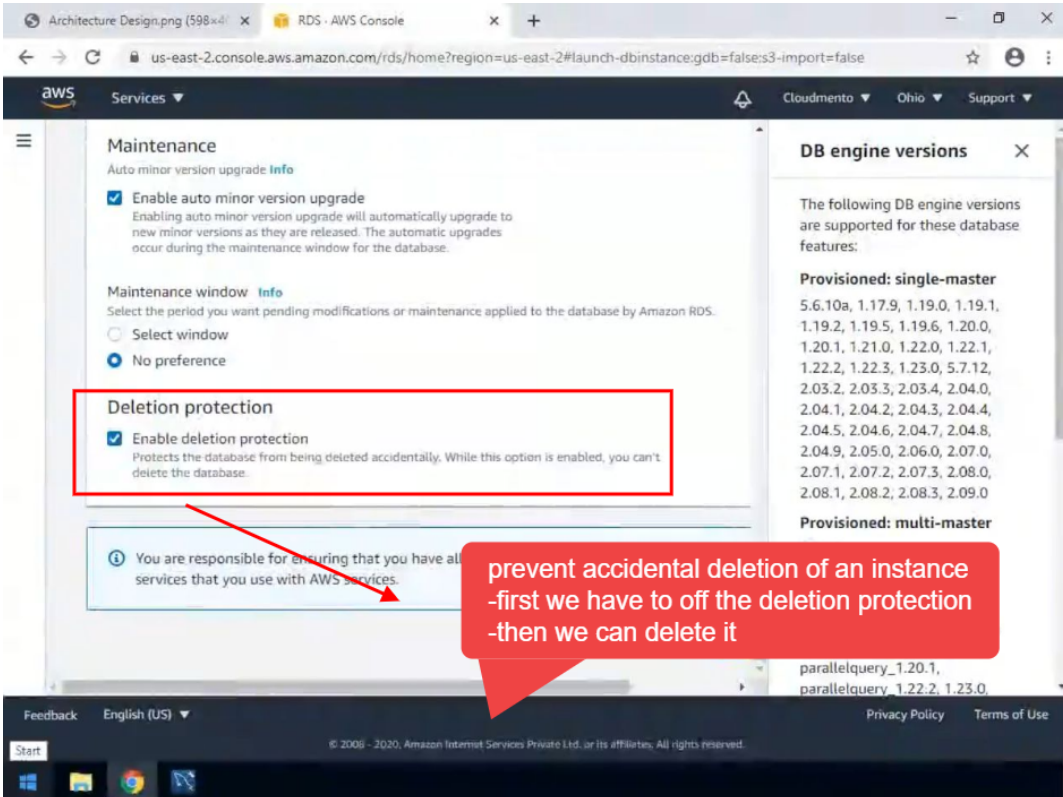
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▶ 6:23



▶ 6:35



7:11

Architecture Design.png (598x460) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:gdb=false;s3-import=false

aws Services

Database instance

version upgrade [Info](#)

auto minor version upgrade

period you want pending modifications or maintenance applied to the database by Amazon RDS.

maintenance window [Info](#)

reference

deletion protection

responsible for ensuring that you have all of the necessary rights for any third-party products or

Cancel Create database

DB engine versions

The following DB engine versions are supported for these database features:

Provisioned: single-master

5.6.10a, 1.17.9, 1.19.0, 1.19.1, 1.19.2, 1.19.5, 1.19.6, 1.20.0, 1.20.1, 1.21.0, 1.22.0, 1.22.1, 1.22.2, 1.22.3, 1.23.0, 5.7.12, 2.03.2, 2.03.3, 2.03.4, 2.04.0, 2.04.1, 2.04.2, 2.04.3, 2.04.4, 2.04.5, 2.04.6, 2.04.7, 2.04.8, 2.04.9, 2.05.0, 2.06.0, 2.07.0, 2.07.1, 2.07.2, 2.07.3, 2.08.0, 2.08.1, 2.08.2, 2.08.3, 2.09.0

Provisioned: multi-master

5.6.10a

Provisioned with parallel query

5.6.10a, 1.19.0, 1.19.1, 1.19.2, 1.19.5, parallelquery_1.19.6, parallelquery_1.20.1, parallelquery_1.22.2, 1.23.0,

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7:29

Architecture Design.png (598x460) x RDS - AWS Console x +

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#databases:

aws Services

Amazon RDS

Dashboard

Databases

Query Editor

Performance Insights

Snapshots

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Events

Event subscriptions

Recommendations

Successfully created database auroracluster. View credential details

RDS > Databases

Databases

Group resources Modify Actions Restore from S3

Create database

Filter databases

1

| | DB identifier | Role | Engine |
|-----------------------|-------------------------------------|----------|--------------|
| <input type="radio"/> | auroracluster | Regional | Aurora MySQL |
| <input type="radio"/> | auroracluster-instance-1 | Writer | Aurora MySQL |
| <input type="radio"/> | auroracluster-instance-1-us-east-2c | Reader | Aurora MySQL |

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